

Docket No.
DEX-0271

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

COMPOSITIONS AND METHODS RELATING TO COLON SPECIFIC GENES AND PROTEINS

the specification of which

(check one)

is attached hereto.

was filed on _____ as United States Application No. or PCT International

Application Number _____

and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

(Number) _____
(Country) _____

(Number) _____
(Country) _____

(Number) _____
(Country) _____

(Day/Month/Year Filed) _____

(Day/Month/Year Filed) _____

(Day/Month/Year Filed) _____

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

60/252,059

November 20, 2000

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

(Application Serial No.)

(Filing Date)

(Status)

(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)

(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)

(patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

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26259

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Third inventor's signature	Date
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Sixth inventor's signature	Date
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SEQUENCE LISTING

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Pluta, Jason
Ghosh, Malavika
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Liu, Chenghua

<120> Compositions and Methods Relating to Colon Specific Genes and Proteins

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cnaatggngc ctgccccaca gctacngtaa tcntnagtca tctaaccatc tatatgctag 180
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<212> DNA
<213> Homo sapien

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<211> 605

<212> DNA

<213> Homo sapien

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<212> DNA
<213> Homo sapien
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<212> DNA
<213> Homo sapien
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 <211> 558
 <212> DNA
 <213> Homo sapien

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 <212> DNA
 <213> Homo sapien

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<210>	48
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<212>	DNA
<213>	Homo sapien

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accaatttct	tcttcagtga	gctttgttgt	tttgggggg	tcaaggaaat	tatccagggt	600
atcttttttgc	ggcataaaagt	ttgcataata	ttcaatttatt	ctaattgtaa	aatatgtaga	660
tactgt						666

<210>	49
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<212>	DNA
<213>	Homo sapien

<400>	49					
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gttccagttt	tactaggcgg	gggagtcgtg	agccagaaga	tgttatgtca	cgtttccata	180
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tcagtaggg	agctgtcaaa	tggcatgcag	agtctggac	gagttgtgac	tgcctcaatg	300
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cccatgagtc acacggaaag tcgggaaagg ctgaagccgg cgggaaacac cttgaggccc	540
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<211> 216	
<212> DNA	
<213> Homo sapien	
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ttgatttata ttgaaatttt atgtatgtat tccccaactc ttttctggaa caatggtac	180
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<213> Homo sapien	
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<210> 52	
<211> 315	
<212> DNA	
<213> Homo sapien	
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acgggatttc tttcttaggtg tggcggtgtg tgggtgtctg tgggtgtgtg tgggtgtgtat	180
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<210> 53	

<211> 201
 <212> DNA
 <213> Homo sapien

<400> 53
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 attgattata gtgtattaaac tttgtattct gtgacccctgc tatattcatt tattagatgt 180
 agtagcttat agggttctta a 201

<210> 54
 <211> 55
 <212> DNA
 <213> Homo sapien

<400> 54
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<210> 55
 <211> 343
 <212> DNA
 <213> Homo sapien

<400> 55
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<210> 56
 <211> 378
 <212> DNA
 <213> Homo sapien

<400> 56
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 ctcgttcttc accagggcac tccgctacaa ggcaagttca tctatgtgct tagcacctcc 180
 agagctaaac tcttacccac cagaagggttgc ctttgagaga taacagtgaa tttacaaccc 240
 aaagtatgcc tggctatagt ttttgccac cttaaaaacc tgatttgcc catgaagaca 300
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<212> DNA	
<213> Homo sapien	
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<223> a, c, g or t	
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acatcctgga atctttgaga	140
<210> 58	
<211> 198	
<212> DNA	
<213> Homo sapien	
<400> 58	
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aaaaaaaaaa aaacttgt	198
<210> 59	
<211> 514	
<212> DNA	
<213> Homo sapien	
<400> 59	
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<210> 60
 <211> 502
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (253)..(253)
 <223> a, c, g or t

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 aatagttatc aaagcctaaa gcagccaaag cctgcagcca tagcctccaa cctagcaatc 360
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 attgcttgca gcactgtttt caataacaaa aatgaacaac tcaaatgtgt atcaatgagg 480
 accctaataa ataaatgtat gt 502

<210> 61
 <211> 228
 <212> DNA
 <213> Homo sapien

<400> 61
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 atataactttt gaagcaaaat tcatagacat ccttaaacag ttaaatgttt ttataaattt 180
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<210> 62
 <211> 148
 <212> DNA
 <213> Homo sapien

<400> 62
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<210> 63
 <211> 491
 <212> DNA
 <213> Homo sapien

<400> 63
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 aagaaacaaa ccaattaaag tggaatcac ctatatacgg cctagagaag acttacttca 480
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<210> 64
 <211> 640
 <212> DNA
 <213> Homo sapien

<400> 64
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 catctcaagt cacagattcc atggggaaat aatgttgagg acatttgcata aaaactatca 180
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<210> 65
 <211> 550
 <212> DNA
 <213> Homo sapien

<220>
<221> misc_feature
<222> (237)..(237)
<223> a, c, g or t

<400> 65
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<210> 66
<211> 1735
<212> DNA
<213> Homo sapien

<400> 66
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<210> 67
 <211> 253
 <212> DNA
 <213> Homo sapien

<400> 67
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<210> 68
 <211> 533
 <212> DNA
 <213> Homo sapien

<400> 68
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<210> 69
 <211> 271
 <212> DNA
 <213> Homo sapien

<400> 69
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 aacagcaaag tcaacagggg aagaagtggg t 271

<210> 70
 <211> 643
 <212> DNA
 <213> Homo sapien

<400> 70
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 acagatattt tgtggttgcc cttaattttttt ttttgataat atctttgtat gccaaggatg 180
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 tttgtgtgtg tgtgagtgatgt tggatagggc ctaaatgcaa ctgttttaca 420
 tatgaaaatc cagttatccc agcactatat gttgaaagac aattacttcc ccatttaatt 480
 gttttggcat ttttggcag tgctgaaagc aaagcttaag gagcaggaca agtcatttag 540
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<210> 71
 <211> 645
 <212> DNA
 <213> Homo sapien

<400> 71
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 aatgcacaca caagagtagt ccctaacgta actacactca tgtcaacggtt agatatggtt 240
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 cggatgcact agttagtcta ctagacctat agtggaaaca tacaatactg gctagcgctc 420
 tctttagttaa gtttagtgg taaatcacca aagtttcata ccatactgaa tcggttggaa 480
 ctgtgtcaca gattgactat ggacatgaat agcgatatta atagacgaag tttaaatatc 540
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<210> 72
 <211> 150
 <212> DNA
 <213> Homo sapien

<400> 72
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 cagttttcc ctttgcttaa ggggcttaggc 150

<210> 73
 <211> 180
 <212> DNA
 <213> Homo sapien

<400> 73
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 actttctgaa aaatgcaccc catttcatgtt atattttcaa gattttggc atacatctgt 180

<210> 74
 <211> 46
 <212> PRT
 <213> Homo sapien

<400> 74

Met	Thr	Lys	Asn	Leu	Lys	Tyr	Gln	Ile	Glu	Tyr	Leu	Ile	Leu	Arg	Ile
1				5					10				15		

Ile	Glu	Lys	Lys	Val	Trp	Glu	Arg	Ile	Phe	Ile	Ile	His	Ile	Leu	Phe
				20				25				30			

His	Asn	Val	Asp	Ser	Ile	Pro	Tyr	Gly	Leu	Leu	Phe	Asn	Gln		
				35			40				45				

<210> 75

<211> 36

<212> PRT

<213> Homo sapien

<400> 75

Met	Asn	Met	Leu	Lys	Asn	Cys	Tyr	Val	Ala	Gly	Thr	Gly	Ala	Trp	Asp
1				5				10				15			

Trp	Glu	Tyr	His	Leu	Pro	Ile	Ser	Ala	Tyr	Arg	Ile	His	Leu	Gly	Gly
				20			25				30				

Gln Met Asp Lys

35

<210> 76

<211> 62

<212> PRT

<213> Homo sapien

<400> 76

Met	Val	Arg	His	Thr	His	Thr	Trp	Glu	Pro	Cys	Val	His	Phe	Ser	Ser
1				5				10				15			

Gln	His	Thr	Leu	Thr	His	Asn	Ala	Asn	Ile	Thr	Phe	Leu	Phe	His	Leu
				20				25				30			

Phe	Ile	Thr	His	Gln	Asp	His	Thr	Lys	Pro	Gln	Ser	Phe	Ile	Ile	Tyr
				35			40				45				

Ile	Asn	Thr	Ser	His	Val	Thr	Lys	Glu	Thr	His	Ser	Ala	Thr		
				50			55				60				

<210> 77

<211> 92

<212> PRT

<213> Homo sapien

<400> 77

Met Ile Cys Tyr Ala Glu Asn His Lys Lys Ser Thr Lys Asp Leu Leu
1 5 10 15

Asp Ile Ile Asn Glu Phe Phe Lys Val Ala Gly Cys Lys Phe Asn Thr
20 25 30

Lys Tyr Ser Ile Val Cys Leu Tyr Ser Cys Asn Glu Gln Ser Arg Asn
35 40 45

Gly Ile Lys Glu Ser Asn Ser Ile Tyr Asn Thr Thr Lys Ile Asn Lys
50 55 60

Ile Leu Arg Asn Lys Phe Asn Lys Arg Thr Glu Lys Pro Ile Ile Trp
65 70 75 80

Lys Pro Gln Asn Asn Val Tyr Arg Asn Lys Asn Thr
85 90

<210> 78

<211> 154

<212> PRT

<213> Homo sapien

<400> 78

Glu Ile Lys Gly Met Ala Asn Gly Lys Gly Lys Ile Lys Ile Ser
1 5 10 15

Ser Leu Ile Tyr Asn Asp Met Ile Cys Tyr Ala Glu Asn His Lys Lys
20 25 30

Ser Thr Lys Asp Leu Leu Asp Ile Ile Asn Glu Phe Phe Lys Val Ala
35 40 45

Gly Cys Lys Phe Asn Thr Lys Tyr Ser Ile Val Cys Leu Tyr Ser Cys
50 55 60

Asn Glu Gln Ser Glu Met Glu Leu Arg Lys Ala Ile Pro Phe Thr Ile
65 70 75 80

Gln Arg Lys Ala Ile Lys Tyr Leu Gly Ile Asn Leu Thr Lys Glu Leu
85 90 95

Lys Asn Gln Ser Ser Gly Asn His Lys Ile Met Leu Gln Glu Ala Lys

100

105

110

Tyr Leu Asn Lys Ala Lys Asp Ile Leu Tyr Ser Phe Ile Gly Arg Ile
 115 120 125

Asn Ile Phe Lys Met Val Ile His Pro Lys Arg Ile Tyr Arg Leu Asp
 130 135 140

Thr Ile Pro Asn Gln Ile Ser Pro Cys Phe
 145 150

<210> 79
 <211> 19
 <212> PRT
 <213> Homo sapien

<400> 79

Met Gln Val Ile Val Leu Gln Asp Cys Lys Val Ser Ile Glu Phe His
 1 5 10 15

His Lys Val

<210> 80
 <211> 43
 <212> PRT
 <213> Homo sapien

<400> 80

Met Glu Ile Ser Pro Asn Ser Ala Leu Thr Leu Phe Pro Ala Gln Val
 1 5 10 15

Pro Tyr Leu Val Val Thr Trp Ser Lys Leu Lys Ser Asn Ser Pro Tyr
 20 25 30

Ile Leu Glu Arg Thr Asn Gly Leu Val Leu Ile
 35 40

<210> 81
 <211> 122
 <212> PRT
 <213> Homo sapien

<400> 81

Met Pro Ser Pro Arg Pro Pro Leu Trp Trp Asp Phe Arg Asn Leu Leu
 1 5 10 15

Leu Ser Ala Pro Pro Ala Arg Phe Arg Gly Gly Ala Ala Gly Phe Pro
 20 25 30

Ser Arg Gly Pro Gln Trp Gly Ser Arg Pro Ser Gly Arg Val Tyr Pro
 35 40 45

Pro Pro Trp Thr Pro Pro Val Ser Pro Leu Leu Asp Ala Cys Ala Phe
 50 55 60

Gly Pro Trp His Ser Phe Ser Pro Pro Gly Phe Ser Phe Ser Gly Ser
 65 70 75 80

Pro Phe Ala Gln Asp Thr Arg Glu Ile Phe Leu Arg Ala Pro His Leu
 85 90 95

Leu Arg Trp Pro Ser Thr His Ser Trp Ala Phe Gly Cys Leu Ser Ile
 100 105 110

Leu Leu Leu Trp Cys Arg Gln Ser Thr Val
 115 120

<210> 82

<211> 63

<212> PRT

<213> Homo sapien

<400> 82

Met Ile Ser Asn Phe Leu Ser Thr Leu Met Phe Ser Ser Tyr Ala Pro
 1 5 10 15

Val Val His Phe Phe Asn Val Val Leu Pro Leu Asn Gln Glu Ile Tyr
 20 25 30

Leu Ala Lys Lys Thr Lys Asp Phe Thr Cys Ile Tyr Phe Ile Ile Phe
 35 40 45

Asp Ser Ser Thr Ile His Arg Val Ser Ile Phe Pro Gly Lys Ser
 50 55 60

<210> 83

<211> 53

<212> PRT

<213> Homo sapien

<400> 83

Met Leu Ala Ala Ser Val Tyr Gly Ile Ala Asp Ser Gly Ser Thr Ala
 1 5 10 15

Ala Arg Ala Val His Ile Ser His Tyr Trp Met Gly Ala Val Ser Lys
20 25 30

Leu Ser Cys Lys Lys Arg Arg Asp Thr Thr Cys Tyr Cys Ser His His
35 40 45

Cys Asn Lys Ile Glu
50

<210> 84
<211> 51
<212> PRT
<213> Homo sapien

<400> 84

Met Asn Phe Glu Lys Ile Asp Phe Leu Arg Ile Pro Trp Lys Thr Gly
1 5 10 15

Asp Val Lys His Ser Tyr Val Leu Val Gln Ile Asn Met Thr Gln Val
20 25 30

Asn His Ile Leu Leu Ser Lys Ser Leu His Pro Glu Arg Gly Gln Leu
35 40 45

Leu Ile Ile
50

<210> 85
<211> 100
<212> PRT
<213> Homo sapien

<400> 85

Met Tyr Arg Asn Ala Thr Asp Phe Phe Met Leu Ile Leu His Leu Ala
1 5 10 15

Met Leu Leu Tyr Leu Phe Ile Ser Ser Asn Arg Phe Cys Cys Cys Arg
20 25 30

Cys Cys Cys Cys His Tyr Cys Trp Gly Gly Val Phe Leu Ser Asn Phe
35 40 45

Leu Leu Ile Arg Leu Cys Tyr Leu Cys Thr Glu Ile Ile Leu Leu Leu
50 55 60

Pro Phe Gln Phe Arg Cys Leu Leu Phe Leu Val Ser Cys Leu Ile Val
 65 70 75 80

Met Val Arg Ile Ser His Ser Met Leu Asn Arg Ser Gly Gly Val Gly
 85 90 95

Ile Leu Ala Leu
 100

<210> 86
 <211> 124
 <212> PRT
 <213> Homo sapien

<400> 86

Met Val Tyr Gly Cys Phe Phe Pro Lys Lys Arg Gly Met Cys Leu Ala
 1 5 10 15

Lys Ala Glu Leu Lys Phe Gly Val Asn Pro Pro Thr Gly Phe Phe Thr
 20 25 30

Gln Val His Arg His Gly Val Cys Lys Thr Arg Pro Arg Ala Gln Leu
 35 40 45

Arg Ile Val Lys Leu Pro Asn Leu Thr Leu Leu Trp Gly Arg Lys Ile
 50 55 60

Gly Ala Pro Ser Leu Lys Glu Pro Ile Ala Ser Glu Ala Gly Ala Pro
 65 70 75 80

Thr Thr Val Glu Trp Glu Lys Ser Leu Pro Arg Asn Ser Arg Pro Tyr
 85 90 95

Ser Cys Trp Phe Ser Arg Ala Pro Lys Val Thr Tyr Glu Ile Leu Leu
 100 105 110

Ile His Val Ala Pro Lys Pro Asn Gly Lys Met Val
 115 120

<210> 87
 <211> 29
 <212> PRT
 <213> Homo sapien
 <400> 87

Met Cys Asn Phe Ile Phe Leu Leu Tyr Tyr Arg Lys Ile Gly Gly Val
 1 5 10 15

Gln Phe Leu Tyr Asn Ser Leu Leu Tyr Leu Asp Ile Phe
20 25

<210> 88
<211> 39
<212> PRT
<213> *Homo sapien*

<400> 88

Met Tyr Ser Leu Gly Lys Ile Arg Thr Met Cys Ser Gln Tyr Leu Gln
1 5 10 15

Asn Leu Lys Leu Lys Arg Thr Thr Ser Ile Ser Val Val Ala Gly Phe
 20 25 30

Leu Ala Phe Tyr Gly Cys Lys
35

<210> 89
<211> 39
<212> PRT
<213> *Homo sapien*

<400> 89

Met Thr Glu Pro Val Val Pro Pro Leu Pro Pro Phe Val Gly Pro Pro
1 5 10 15

Asn Leu Glu Met Tyr Glu Gly Leu Leu Val Ser Leu Gly Asp Gly Trp
 20 25 30

Arg Gln Asn Arg Ala Tyr Leu
35

<210> 90
<211> 155
<212> PRT
<213> *Homo sapien*

5400> 90

Met Ala Asp Ile His Gln Ser Ser Gln Glu Phe Gln Gly His Leu Pro
1 5 10 15

Ser Phe Phe Tyr Pro Arg Pro Gly Asp Gln Ser Phe Pro Phe Ser Leu
 20 25 30

Lys Gln Thr Trp His Ala Asn Val Thr Pro Cys Gly Gln Phe Gln Tyr

35

40

45

His Gly Ala Leu Ala Arg Arg Leu Ile Leu Cys Leu Asp Trp Leu His
 50 55 60

Gly Ile Ser His Ser Asp Ala Arg Gln Gly His Ala Asp Phe Pro Ile
65 70 75 80

Gly Trp Val Tyr Cys Leu Ala Val Gln Pro Cys Asn Arg Val Ala Asn
 85 90 95

Asp	Gly	Asp	Thr	Pro	Val	Thr	Arg	Ser	His	Val	Val	Asp	Thr	Val	Lys
100								105					110		

Ala Ser His Leu Ser His His Gly Arg Ser Cys His Val Glu Cys Leu
115 120 125

His Arg Cys Met Phe Asp Thr Ile Cys Thr Ser Val Cys Asn Arg Ser
 130 135 140

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Leu Val Ala Thr Gly Asp His His Thr Arg Val
145           150           155

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<210> 91
<211> 97
<212> PRT
<213> Homo sapien
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<400> 91
Met Ala Tyr Phe Val Phe Trp Ala Cys Val Ser Thr Ser Thr Asp Ala

Asn Val Arg His Gly Leu Trp Cys Gly Ala Asn Ile Gln Ala Ile Gln

Arg Gln His Val Phe Gln Lys Ala Ser Leu Ala Gln Ser Gly Glu Ser

Pro Pro Thr Ser Asn Ile Leu Arg Asn Ser Ser Thr Gln Leu Cys Ala

Val Pro Gly Arg Gly Gly Arg Ser Lys Ser Arg Ile Leu Gly Asn Ile
50 55 60 65 70 75 80

Pro His Thr Gly Ala Ala Arg Arg Ala Trp Ser Arg Gly Pro Ile Arg
 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

Leu

<210> 92
 <211> 39
 <212> PRT
 <213> Homo sapien

<400> 92

Met Lys Ile Asp Leu His Lys Ser Ile Ser Ser Glu Ser Tyr Arg Thr
 1 5 10 15

Leu Gly Gln Arg Arg Cys Met Lys Leu Pro Glu Arg Glu Asn Arg Ser
 20 25 30

His Val Lys Glu Gln Lys Ser
 35

<210> 93
 <211> 130
 <212> PRT
 <213> Homo sapien

<400> 93

Met Gly Pro Trp Gly Phe Gly Ala Met Ser Gly Trp Ala Lys Asn Lys
 1 5 10 15

Thr Lys Phe Gly Lys Ile Met Ala Arg Lys Lys Ile Phe Ser Thr Arg
 20 25 30

Ala Leu Lys Val Ala Pro Pro Leu Gly Ala Leu Gly Gly Val Thr Arg
 35 40 45

Gly Leu Pro Cys Met His Pro Gly Gly Lys Asn Trp Gly Gly Gly
 50 55 60

Glu Gly Asp Pro Trp Gly Gly Arg Gly Phe Gln Gln Lys Thr Lys
 65 70 75 80

Lys Gly Pro Ser Ser Lys Pro His Ile Leu Arg Gly Gly Arg Pro
 85 90 95

Pro Val Pro Gly Gly Pro Ile Ala Ser Gly Arg Pro Gly Gly Val
 100 105 110

Gln Gly Gly Gly Val Val Leu Thr Thr Val Phe Leu Ala Pro Lys Val
 115 120 125

Arg Gly
 130

<210> 94
 <211> 23
 <212> PRT
 <213> Homo sapien

<400> 94

Met Ser Phe Ser Leu Gly Val Phe Ser Gly Leu Val Asp Lys Gly Leu
 1 5 10 15

Tyr Tyr Ile Cys His Trp Tyr
 20

<210> 95
 <211> 30
 <212> PRT
 <213> Homo sapien

<400> 95

Met Gly Gly Val Arg Gly Cys Thr Pro Leu Phe Pro Trp Ala Gly Ser
 1 5 10 15

Ala Cys Leu Ile Ile Phe Ile Phe Trp Gly Arg Thr Arg Val
 20 25 30

<210> 96
 <211> 32
 <212> PRT
 <213> Homo sapien

<400> 96

Met Arg Ser Ser Ile Ser Asp Lys Lys Leu Gly Ser Gln Leu Lys Cys
 1 5 10 15

Ala Val Ser Thr His Gln Ile Leu Arg Thr Tyr Arg Ser Ala Pro Val
 20 25 30

<210> 97
 <211> 50
 <212> PRT
 <213> Homo sapien

<400> 97

Met Gly Ile Ala Arg Ile Arg Leu Ser Val Val Pro Ala Glu Gly Thr
 1 5 10 15

Arg Arg Ala Pro Pro Glu Arg Glu Asp Phe Gly Glu Gly Ala Glu
 20 25 30

Arg Gly Gly Pro Glu Ala Gln Arg Pro Pro Ser Pro Thr Gly Phe Gln
 35 40 45

Val Pro
 50

<210> 98

<211> 91

<212> PRT

<213> Homo sapien

<400> 98

Met Asp Pro Pro Val Gly Pro Val Leu Ser Pro Gly Ile Gly Gly Ala
 1 5 10 15

Met Leu Ser Pro Gln Thr Pro Thr Met Arg Gly Gly Glu Arg Asn Leu
 20 25 30

Gly Gly Gly Tyr Ile Leu Phe Pro Phe Pro Leu Cys Phe Lys Trp Trp
 35 40 45

Ser Pro Thr Leu Asp Phe Gly Gln Gly Leu Leu Val Leu Ala Gly Gly
 50 55 60

Ala Val Gln Lys Gln Ile Ser Thr Thr Trp Gly Gly Val Asn Arg Gly
 65 70 75 80

Pro Ser Ser Asp His Val Gly Arg Leu Arg Ala
 85 90

<210> 99

<211> 56

<212> PRT

<213> Homo sapien

<400> 99

Met Tyr Lys Ile Ala Ser Ile Ile Lys Lys Asn Ser Gln Glu Ile Lys
 1 5 10 15

Arg Pro Gly Pro Asp Gly Phe Thr Asp Glu Phe Tyr Gln Thr Tyr Glu
 20 25 30

Glu His Gln Leu Leu Leu Asn Asn Ser Lys Asn Thr Asn Arg Ser Glu
 35 40 45

Phe Phe Leu Thr Pro Ser Met Arg
 50 55

<210> 100
 <211> 100
 <212> PRT
 <213> Homo sapien

<400> 100

Ser Val Pro Arg Leu Asn Ala Lys Glu Ile Glu Asn Leu Asn Arg Thr
 1 5 10 15

Asn Arg Met Tyr Lys Ile Ala Ser Ile Ile Lys Lys Asn Ser Gln Glu
 20 25 30

Ile Lys Arg Pro Gly Pro Asp Gly Phe Thr Asp Glu Phe Tyr Gln Thr
 35 40 45

Tyr Lys Glu Asp Trp Val Pro Ile Leu Leu Lys Leu Phe Gln Arg Val
 50 55 60

Glu Glu Glu Gly Leu Leu Pro Lys Thr Phe Tyr Glu Ala Thr Ile Thr
 65 70 75 80

Leu Ile Pro Lys Pro Gly Arg Asp Thr Thr Lys Lys Glu Asn Tyr Arg
 85 90 95

Gln Thr Ala Leu
 100

<210> 101
 <211> 67
 <212> PRT
 <213> Homo sapien

<400> 101

Met Thr Leu Thr Cys Phe Pro Leu Ser Ser Tyr Lys Lys Arg Phe Phe
 1 5 10 15

Leu Phe Gln Phe Cys Tyr Ser Cys Val Phe Phe Ser Ser Trp Cys Asp
 20 25 30

Ile Ile Ser His Thr Pro Glu His Phe Pro Val Thr Lys Leu Ile Gly
 35 40 45

Leu Ser Thr Ile Phe Lys Val Met Cys Tyr Leu Val Thr His Trp Leu
 50 55 60

Tyr Thr Ala
 65

<210> 102
 <211> 38
 <212> PRT
 <213> Homo sapien

 <400> 102

Met Asn Asn Pro Ala Ser Ile Lys Tyr Ile Lys Ser Asn Asn Leu Lys
 1 5 10 15

Leu Thr Tyr Lys Asn Asn Ser Arg Ser Gly Arg Phe His Ser Cys Ile
 20 25 30

Leu Thr Ile Phe Lys Glu
 35

<210> 103
 <211> 36
 <212> PRT
 <213> Homo sapien

 <400> 103

Met Pro Gly Leu Leu Leu His Val Phe Leu Pro Thr Ile Phe Gly Trp
 1 5 10 15

Val Ser Arg Lys Lys Ile Phe Lys Ile Lys Lys Lys Lys Lys Lys Lys
 20 25 30

Lys Lys Ala Cys
 35

<210> 104
 <211> 44
 <212> PRT
 <213> Homo sapien

 <400> 104

Met Val Trp Glu Asn His Glu Gln Phe Gly Val Leu Leu Ile Thr Pro
 1 5 10 15

Leu Gly Ala Cys Tyr His Leu Tyr Leu Val Leu Lys Lys Val Lys Asn
 20 25 30

Trp Gly Gln Lys Lys Lys Lys Lys Ala Leu
 35 40

<210> 105

<211> 38

<212> PRT

<213> Homo sapien

<400> 105

Met Cys Val Leu Leu Lys Asn Leu Gly Gly Tyr Arg Ile Phe Ala Leu
 1 5 10 15

Lys Ile Lys Met Leu Met Arg Lys Leu Gly Ile Glu Gln Thr Thr Gln
 20 25 30

Thr Ile Asp Leu Phe Asn
 35

<210> 106

<211> 21

<212> PRT

<213> Homo sapien

<400> 106

Met Ile Pro Val Cys Phe Ser Arg Gln Pro Pro Leu Pro Ala Leu Ala
 1 5 10 15

Gly Val Leu Trp Trp
 20

<210> 107

<211> 133

<212> PRT

<213> Homo sapien

<400> 107

Met Ala Pro Pro Asn Phe Val Ala Leu Met Gly Gly Gly Phe Gln Val
 1 5 10 15

Gly Gly Cys Ala Gly Ser Cys Ile Pro Gly Asp Arg Val Arg Glu Gln
 20 25 30

Asp Gly Leu Trp Val Trp Glu Gly Lys Pro Glu Val Gly Arg Ser Gly
 35 40 45

Lys Gly Ser Leu His Glu Glu Lys Pro Arg Thr Gly Gly Pro Thr Ala
 50 55 60

Phe Glu Lys Pro Arg Lys Ser Ala Gly Ser Arg Gly Gly Pro Pro Thr
 65 70 75 80

Arg Leu Leu Glu Gly Gly Pro Pro His Leu Gly Ser Ile Gly Gly Pro
 85 90 95

Gly Ala Gly Lys Gly Pro Trp Arg Gly Val Met Gly Asp Thr Cys Ala
 100 105 110

Pro Gly Ala Gly Arg Pro Gln Asn Ala Arg Asn Leu Gln Ala Thr Arg
 115 120 125

Gly Gly Pro Val Thr
 130

<210> 108

<211> 79

<212> PRT

<213> Homo sapien

<400> 108

Met Ser Ala Lys Leu Ile Asn Phe Val Ser Val Thr Gln Glu Ser Ser
 1 5 10 15

Ile Ser Tyr Ser Asn Leu Val Gln Ser Thr Met Ser Thr His Asn Asn
 20 25 30

Ser Lys Tyr Tyr Met Asn Lys Phe Ala Gln Val Leu Gly Ala Asn His
 35 40 45

Ile Arg Glu Asn Asn Val Asn Cys Thr Gln Ser Met Cys Ser Pro Lys
 50 55 60

Cys Ile Cys Leu Ser Asn Ala Thr Trp Lys Pro Arg Gly Tyr Ala
 65 70 75

<210> 109

<211> 31

<212> PRT

<213> Homo sapien

<400> 109

Met Asn Phe Lys Lys Asp Thr Ala Leu Ile Ser Val Thr Trp Glu Ile
 1 5 10 15

Pro Arg Val Leu Gly Ala Leu Trp Gln Glu Glu Lys Ser Asn Ile
 20 25 30

<210> 110

<211> 57

<212> PRT

<213> Homo sapien

<400> 110

Met Pro Gly Gly Ser Pro Pro Thr Phe Tyr Arg Pro Asn Phe Ser Leu
 1 5 10 15

Pro Asn Met Gly Ser Val Phe Pro Ser Arg Ala Ala Lys Asp Asp Cys
 20 25 30

Thr Glu Gly Glu Gly Arg Gly Pro Arg Gly Pro Val Met Ser Trp
 35 40 45

Glu Gly Arg Gly Gly Ala Pro Arg His
 50 55

<210> 111

<211> 57

<212> PRT

<213> Homo sapien

<400> 111

Met Lys Arg Gly Leu Lys Phe Phe Lys Ser Arg Leu Leu Asp Asn Ala
 1 5 10 15

Arg Gly Phe Gly Asn Ile Pro Tyr Leu Lys Ile Gly Asn Leu Ala Val
 20 25 30

Gly Tyr Met Gly Glu Val Thr Pro Leu Val Gly Val Gly Trp Phe Gly
 35 40 45

Pro Val Phe Pro Pro Lys Gly Trp Phe
 50 55

<210> 112

<211> 34

<212> PRT

<213> Homo sapien

<400> 112

Met Ser Glu Ile Arg Gln Ser Lys Met His Thr Lys Thr Leu Ile His
1 5 10 15

Leu Trp Gly Asn His Ser Ile Ser Ser Ser Leu Phe Asn Tyr Asn Ile
20 25 30

Lys Lys

<210> 113

<211> 155

<212> PRT

<213> Homo sapien

<400> 113

Met Gly Phe Val Ala Arg Asn Pro Val Pro Thr Leu Pro Gly Ala Gly
1 5 10 15

Arg Ser Lys Ala Pro Glu Phe Leu Ala Arg Phe Leu His Ser Pro Leu
20 25 30

Val Arg Pro Val Gln Thr Asn Ala Phe Tyr Glu Gly Ala Gln Phe Gln
35 40 45

Pro Leu Ile Arg Asp Val Gly Ile Ile Pro Asn Pro Arg Trp Pro Gly
50 55 60

Ser Leu Leu Thr Asn Ala Phe Cys Arg Leu Val Glu Asn Asn His Leu
65 70 75 80

Ala Ser Val Asn Pro Gln Arg Leu Arg Ser Ala Leu Cys Gln Thr Thr
85 90 95

Phe Pro Thr Leu Phe Val Thr His Thr Asp Thr Thr Thr Val His
100 105 110

Glu Thr Asn Asp Thr Asn Asp Asn Arg His Thr Ala Asp Pro Glu Gln
115 120 125

Arg Arg Tyr Glu Gly Arg Glu Pro Ala Arg Pro Thr Ala Pro Arg Ala
130 135 140

Gly Arg His Gln Thr Thr Asn Asn Thr Lys Lys
145 150 155

<210> 114
 <211> 87
 <212> PRT
 <213> Homo sapien

<400> 114

Met Glu Ser Arg His Ser Val Lys Gly Ser Pro Arg Tyr Ala Leu Ser
 1 5 10 15

Ala Ala Pro Pro Gln His Glu Gly Ala Arg Gly Ser Ser Ala Gly Ala
 20 25 30

Arg Lys Gly His Glu Glu Glu Arg Gly Thr Pro Arg Ser Phe Gly Gly
 35 40 45

Ser Cys His Asn Pro Leu Ala Pro Arg Pro Cys Ala Arg Gly Pro Val
 50 55 60

Pro Pro Thr Pro Ala Val Pro Pro Val Val Leu Thr Arg Phe His Ala
 65 70 75 80

Pro Met Ala Ile Pro Leu Ala
 85

<210> 115
 <211> 39
 <212> PRT
 <213> Homo sapien

<400> 115

Met Val Ser Val Thr Ser Arg Leu His Val Tyr Ile Ser Cys Trp Gln
 1 5 10 15

Tyr Cys Thr Lys Val Ser Pro Phe Asn Lys Gln Arg Val Lys Leu Gly
 20 25 30

Glu Gly Gln Arg Gly Ile Tyr
 35

<210> 116
 <211> 83
 <212> PRT
 <213> Homo sapien

<400> 116

Met Gln Thr Leu Cys Gln Lys Lys Ile Pro Trp Ile Ile Ser Leu Lys
 1 5 10 15

Asn Thr Lys Gln Gln Ser Ser Leu Lys Lys Lys Leu Val Phe Leu Asn
 20 25 30

Asn Thr Glu Tyr Phe Asp Leu Lys Asn Lys Gln Asn Thr Leu Ser Ser
 35 40 45

Lys Ile Thr Ser Gly Leu Asp Gly Phe Thr Glu Asp Phe Tyr Gln Thr
 50 55 60

Leu Lys Gly Glu Thr Leu Ile His Leu Leu Asn Ile Tyr Leu Asn Ile
 65 70 75 80

Lys Tyr Lys

<210> 117
 <211> 60
 <212> PRT
 <213> Homo sapien
 <400> 117

Met Ser Ala Gln Val Leu Val Ser Arg Thr Pro Ser Gly Phe Thr Ser
 1 5 10 15

Asp Pro Phe Leu Pro Ser Arg Pro Pro His Asn Leu Leu Gly Thr Tyr
 20 25 30

Ser Ala Leu Arg Gln Ser Gln Leu Val Pro Asp Ser Ala Cys His Leu
 35 40 45

Thr Ala Pro Val Leu Ser Met Gly Lys Ile Asn Gly
 50 55 60

<210> 118
 <211> 47
 <212> PRT
 <213> Homo sapien
 <400> 118

Met Leu Gly Glu Lys Leu Cys Val Phe Lys Phe Asp Lys His Val Leu
 1 5 10 15

Ile Tyr Ile Glu Ile Leu Cys Met Tyr Ser Pro Thr Leu Phe Trp Asn
 20 25 30

Asn Gly Ile Asn Ser Tyr Phe Phe Leu Phe Phe Phe Phe Gly

35

40

45

<210> 119
 <211> 31
 <212> PRT
 <213> Homo sapien

<400> 119

Met His Lys His Thr His Thr Gln Arg Tyr Trp Leu Cys His Ser Ser
 1 5 10 15

Leu Thr Tyr Tyr Ser Val Ser Leu Cys Ile Ser His Ile Val Leu
 20 25 30

<210> 120
 <211> 49
 <212> PRT
 <213> Homo sapien

<400> 120

Met Trp Ser Phe Leu Ile Thr Ser His Lys Leu His Ser Phe Leu His
 1 5 10 15

Lys Cys Pro Ala Gln Ile Leu Arg Asp Phe Phe Leu Gly Val Cys Val
 20 25 30

Cys Val Cys Leu Cys Val Cys Val Cys Val Tyr Leu Cys Lys Phe Glu
 35 40 45

Trp

<210> 121
 <211> 36
 <212> PRT
 <213> Homo sapien

<400> 121

Met Asn Ile Ala Arg Ser Gln Asn Thr Lys Leu Ile His Tyr Asn Gln
 1 5 10 15

Phe Tyr Phe Tyr Thr Leu Thr Thr Asn Asn Gly Thr Lys Lys Phe Lys
 20 25 30

Thr Ser Ala Leu
 35

<210> 122
 <211> 46
 <212> PRT
 <213> Homo sapien

<400> 122

Met Pro Val Ser Ile Asn Ile Lys Glu Thr Glu Ser Ile Ile Asn Lys
 1 5 10 15

Leu Ser Lys Lys Lys Ala Leu Ser Pro Ser Gly Glu Leu Tyr Gln Thr
 20 25 30

Leu Lys Asp Lys Met Ile Pro Met Ser Leu Gln Ser Leu Pro
 35 40 45

<210> 123
 <211> 42
 <212> PRT
 <213> Homo sapien

<400> 123

Met Glu Leu Tyr Glu Trp Pro Leu Thr Ser Phe Phe Thr Arg Ala Leu
 1 5 10 15

Arg Tyr Lys Ala Ser Ser Ser Met Cys Leu Ala Pro Pro Glu Leu Asn
 20 25 30

Ser Tyr Pro Pro Glu Gly Cys Leu Glu Arg
 35 40

<210> 124
 <211> 20
 <212> PRT
 <213> Homo sapien

<400> 124

Met Ala Pro Gly Gly Pro Arg Ile Gly Asp His Trp Arg Pro Pro Gly
 1 5 10 15

Pro Gly Leu Gly
 20

<210> 125
 <211> 32
 <212> PRT
 <213> Homo sapien

<400> 125

Met Ser Asn Leu Tyr Trp Gly Lys Arg Gly Glu Lys Lys Thr Thr Lys
 1 5 10 15

Thr Thr Pro Phe Gly Gly Lys Lys Lys Lys Lys Lys Lys Asn Leu
 20 25 30

<210> 126

<211> 53

<212> PRT

<213> Homo sapien

<400> 126

Met Arg Arg Leu Gly Gln Tyr Asn Thr Ser Gln Asp Val Leu Ser Asn
 1 5 10 15

Gln Tyr Phe Leu Leu Thr Phe Ser Ile Ala Ile Lys Asn Ile Ile Val
 20 25 30

Leu Pro Gly Glu Ala Leu Ser Ser Trp Pro Leu Asp Gly Asp Phe Glu
 35 40 45

Glu Val Asp Pro Met
 50

<210> 127

<211> 56

<212> PRT

<213> Homo sapien

<400> 127

Met Ala Phe Tyr Cys Leu Cys Leu Pro Phe Phe Asn Tyr Met Trp Thr
 1 5 10 15

Ser Phe Leu Cys Val Leu Leu Ala Val Ser Ile Ser Phe Ser Ala Asn
 20 25 30

Cys Leu Phe Leu Ser Phe Phe Ile Phe Leu Leu Gly Cys His Leu Phe
 35 40 45

Trp Leu Lys Arg Lys Leu Gly Lys
 50 55

<210> 128

<211> 16

<212> PRT

<213> Homo sapien

<400> 128

Met Ser Thr Leu His Ala Tyr Leu Asn Met Leu Ile Tyr Lys Asn Ile
 1 5 10 15

<210> 129
 <211> 18
 <212> PRT
 <213> Homo sapien

<400> 129

Met Arg Leu Asp Phe Trp Leu Leu Leu Ile Leu Gly Ala Arg Ser Ser
 1 5 10 15

Gln Ala

<210> 130
 <211> 43
 <212> PRT
 <213> Homo sapien

<400> 130

Met Val Cys Phe Lys Asp Ile Ile Val Ser Val Leu Leu His Lys Lys
 1 5 10 15

Thr Leu Tyr Phe Asn Phe Phe Ser Pro Ile Phe Phe Cys Phe Glu Leu
 20 25 30

Thr Ala Tyr Ile Phe Cys Tyr Cys Val Phe Ile
 35 40

<210> 131
 <211> 31
 <212> PRT
 <213> Homo sapien

<400> 131

Met Arg Cys Ile Ser Cys Leu Phe Tyr Val Asn Glu Asn Pro Asn Val
 1 5 10 15

Glu Ala His Leu Phe Ala Ile Leu Leu Thr Leu Gln Leu Ser Arg
 20 25 30

<210> 132
 <211> 64
 <212> PRT
 <213> Homo sapien

<400> 132

Met Ala Val Ile Lys Phe Pro Tyr Arg Asp Ser Asn Ser Leu Leu Ser
 1 5 10 15

Lys His Arg Ala Asp Arg Glu Thr Ser Ser Asp Cys His Leu Val Ala
 20 25 30

Leu Met Met Glu Lys Leu Gly Met Asn His Ser Pro Phe Pro Thr Tyr
 35 40 45

Thr Pro Leu Thr Glu Trp Glu Tyr Leu Leu Asn Ser Glu Lys Gly Ile
 50 55 60

<210> 133

<211> 98

<212> PRT

<213> Homo sapien

<400> 133

Met Leu Lys Ser His Phe Cys Leu Arg Ala Ile Lys His Met Lys Gly
 1 5 10 15

Cys Leu Thr Ser Leu Lys Lys Lys Asn Lys Lys Lys Gly Trp
 20 25 30

Cys Pro Ile Phe Phe Pro Arg Gly Met Ala Lys Lys Lys Lys Gly
 35 40 45

Val Ser Pro Ala Gly Gly Pro Asp Lys Thr Lys Ser Gln Thr Arg Gly
 50 55 60

Gly Arg Asn Lys Glu Thr Thr Ser Pro Gly Thr Gln Arg Gly Arg Lys
 65 70 75 80

Gln Gly Lys Lys Ala Ser Pro Trp Val Lys Trp Ser Arg Pro Lys Ser
 85 90 95

His Asn

<210> 134

<211> 24

<212> PRT

<213> Homo sapien

<400> 134

Met Phe Val Ser Lys Lys Gly Val Lys Leu Ser Gln Lys Lys Lys

1

5

10

15

Lys Lys Lys Leu Val Pro Arg Pro
20

<210> 135
<211> 46
<212> PRT
<213> Homo sapien

<400> 135

Met Leu Leu Leu Asn Gly Arg Ser Ser Leu Tyr Ile Tyr Met Ile Asp
1 5 10 15

Gly Gly Tyr Val Ile Tyr Arg Tyr Phe Val Val Ala Leu Leu Ile Phe
20 25 30

Leu Ile Ile Ser Phe Asp Ala Lys Ser Val Phe Leu Ile Leu
35 40 45

<210> 136
<211> 65
<212> PRT
<213> Homo sapien

<400> 136

Met Ser Val Val Thr Leu Gly Thr Thr Leu Val Cys Ala Leu Phe Ala
1 5 10 15

Thr Glu Ser Pro Ser Arg Tyr Asn Ser Lys Ile Arg Tyr Phe Leu Val
20 25 30

Gly Gln Glu Asp Ser Gln Asp Thr Val Arg Gly Thr Ala Val Ile Gln
35 40 45

Thr Lys Glu Leu Leu Tyr Asn Lys Phe Leu Arg Lys Tyr Val Leu Lys
50 55 60

Cys
65

<210> 137
<211> 57
<212> PRT
<213> Homo sapien

<400> 137

Met Ser Leu Gln Asn Phe Ser Ser His Leu Ile Lys Leu Leu Leu
1 5 10 15

Pro Arg Phe Asn Pro Pro Phe His Val Phe Tyr Cys Leu Leu Ser Glu
20 25 30

Ile His Ile Phe Leu Asn Phe Leu Lys Asn Ala Ser His Phe Met Tyr
35 40 45

Ile Phe Lys Ile Phe Gly Ile His Leu
50 55

100 90 80 70 60 50 40 30 20 10